CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KM/W.No.13/CSR-04/609h/CEMENT/2018-19 Date: 03.04.2018

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of Work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	Cement
Sample Received on	:	02.04.2018
Period of Testing	:	02.04.2018 to 03.04.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KM/W.No.13/CSR-04/609h/SAND-Gradation/2018-19 03.04.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of Work	: Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2007)
Sample Received On	: 02.04.2018
Date of Testing	: 03.04.2018

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.50	90-100	90-100	90-100	95-100
2.36	80.50	60-95	75-100	85-100	95-100
1.18	60.50	30-70	55-90	75-100	90-100
600 Micron	41.50	15-34	35-59	60-79	80-100
300 Micron	19.90	5-20	8-30	12-40	15-50
150 Micron	4.70	0-10	0-10	0-10	0-15

AE/AEE

Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/KM/W.No.13/CSR-04/609h/AGG/GR/2018-19 03.04.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of Work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	02.04.2018
Date of Testing	:	03.04.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.90	95-100	85-100
20	39.90	30-70	0-20
10	17.40	10-35	0-5
4.75	3.40	0-5	-

AEE

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Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KM/W.No.13/Steel/2018-19 05.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	05.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	514	555	13.1	O.K	O.K

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ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KM/W.No.13/Steel/2018-19

05.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Samples ID	:	10mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	05.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	517	558	13.25	O.K	O.K

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Lab No.: CTCE/BBMP/KM/W.No.13/Steel/2018-19 05.04.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	05.04.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	521	563	13.35	O.K	O.K

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Job No.: CTCE/BBMP/KM/W.No.13/CSR-04/609h/Cube/2018-19 05.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2018	05.05.2018	8.123	483.6	21.49
2	07.04.2018	05.05.2018	8.220	508.5	22.60
3	07.04.2018	05.05.2018	8.320	511.4	22.73

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.04.2018	05.05.2018	8.175	475.6	21.14
2	07.04.2018	05.05.2018	8.220	515.6	22.92
3	07.04.2018	05.05.2018	8.360	524.5	23.31

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Job No.: CTCE/BBMP/KM/W.No.13/CSR-04/609h/Cube/2018-19 08.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	08.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.04.2018	08.05.2018	8.173	480.5	21.36
2	10.04.2018	08.05.2018	8.290	513.4	22.82
3	10.04.2018	08.05.2018	8.333	522.3	23.21

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	08.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.04.2018	08.05.2018	8.299	474.6	21.09
2	10.04.2018	08.05.2018	8.375	511.3	22.72
3	10.04.2018	08.05.2018	8.482	513.2	22.81

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Job No.: CTCE/BBMP/KM/W.No.13/CSR-04/609h/Cube/2018-19 11.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.04.2018	11.05.2018	8.129	474.6	21.09
2	13.04.2018	11.05.2018	8.210	510.5	22.69
3	13.04.2018	11.05.2018	8.350	522.9	23.24

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Job No.: CTCE/BBMP/KM/W.No.13/CSR-04/609h/Cube/2018-19 11.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.04.2018	11.05.2018	8.105	498.5	22.16
2	13.04.2018	11.05.2018	8.230	515.3	22.90
3	13.04.2018	11.05.2018	8.360	522.9	23.24

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Job No.: CTCE/BBMP/KM/W.No.13/CSR-04/609h/Cube/2018-19 17.05.2018

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* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Covering Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2018	17.05.2018	8.137	495.6	22.03
2	19.04.2018	17.05.2018	8.225	516.4	22.95
3	19.04.2018	17.05.2018	8.368	522.9	23.24

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KM/W.No.13/CSR-04/609h/Cube/2018-19

17.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
* Name of the work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
* Sample ID	:	RCC Drain Covering Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.05.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.04.2018	17.05.2018	8.120	499.5	22.20
2	19.04.2018	17.05.2018	8.220	523.4	23.26
3	19.04.2018	17.05.2018	8.360	538.9	23.95

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T-2377

No. CTCE/BBMP/KM/W.No.13/CSR-04/609h/Precast slab/2018-19 27.04.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

*Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*Agency	:	**Smt. K. Manjula,** No.381, 23rd Main Road, 2nd Stage, BTM Layout, Bangalore – 560 076.
*Name of work	:	Construction of RCC drains in Vishweshwaraiah road and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
*Reference	:	EE/DD/WO/288/2017-18 Dated: 14.03.2018
*Sample ID	:	Precast slab (100mm thick)
*Grade of Concrete	:	M_{20}
Technical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	23.04.2018
Date of Testing	:	27.04.2018

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.390	2514.25	1.58	0.955	31.25	15.92	17.19	18.01	22.51
2	50.00	82.00	0.415	2577.53	1.64	0.961	33.35	16.99	18.34	17.63	22.04
3	50.00	84.00	0.419	2540.42	1.68	0.965	34.70	17.67	19.09	18.43	23.03

* Information is furnished by the Customer/Representative

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